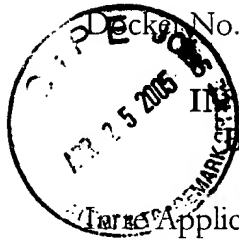


AF *Zmu*



Docket No.: YHK-0039

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF APPEALS AND INTERFERENCE

Application of

Confirmation No.: 9403

Ho Young CHOI et al.

Group Art Unit: 2872

Serial No.: 09/514,250

Examiner: Audrey Chang

Filed: February 28, 2000

Customer No.: 34610

For: PROJECTION LENS SYSTEM

REPLY BRIEF

U.S. Patent and Trademark Office
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Sir:

In response to the Examiner's Answer dated February 25, 2005, Appellants provide the following comments:

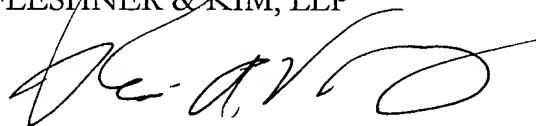
At page 3 of the Examiner's Answer, the Examiner states that "Ogata in the same field of endeavor teaches to use a refractive lens/diffractive surface combination and particularly a diffractive optical element that formed on an aspherical lens to correct the aberrations, including chromatic aberrations, of the lens system...". However, Appellants respectfully submit that Ogata teaches the use of a diffractive surface for correcting chromatic aberrations in a camera zoom lens module. Accordingly, the diffractive surface used in Ogata must correct chromatic aberrations over a sufficiently broad band to cover the entire visible wavelength range. When a

diffraction surface is designed to correct chromatic aberrations over a broader wavelength range, the chromatic aberration correction is not as effective.

In contrast, the present invention teaches the use of individual lens modules for each of the red, green and blue light sources. Accordingly, the diffraction optical element formed on at least one of the surfaces of the lenses that make up the projection lens system of the present invention is designed for narrow band chromatic aberration. As a result, the diffraction optical element of the present invention provides more effective chromatic aberration correction.

For the above reasons, in addition to the reasons set forth in the Appeal Brief filed on April 9, 2004, prompt withdrawal of the rejections set forth in the Final Rejection dated July 15, 2003 and allowance of the application are earnestly solicited.

Respectfully submitted,
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